

**TABLE 1: Shaking Potential and Existing (2000) Land Use**

	Total Acres	Highest Shaking Potential	Next to Highest Shaking Potential	Middle Category of Shaking Potential	% of Land in Highest Shaking Potential Area	% of Land in Next to Highest Shaking Potential Area	% of Land in Middle Category of Shaking Potential
Total	4,395,975	357,325	1,273,997	1,865,606	8.1%	29.0%	42.4%
Urban	1,082,285	115,986	485,167	398,294	10.7%	44.8%	36.8%
Non-Urban	3,313,690	241,339	788,830	1,467,311	7.3%	23.8%	44.3%
URBAN ONLY:							
Residential	578,048	54,633	259,048	225,532	9.5%	44.8%	39.0%
Mixed R+C	2,345	484	1,409	415	20.6%	60.1%	17.7%
Commercial/							
Services	100,396	12,587	54,027	28,253	12.5%	53.8%	28.1%
Mixed C+I	12,137	1,593	9,762	639	13.1%	80.4%	5.3%
Industrial	66,861	5,159	35,346	21,790	7.7%	52.9%	32.6%
Military	31,409	5,082	5,491	17,848	16.2%	17.5%	56.8%
Infrastructure	146,061	20,307	56,345	51,107	13.9%	38.6%	35.0%
Urban Open	145,028	16,141	63,740	52,711	11.1%	44.0%	36.3%
URBAN ONLY:							
Alameda	168,564	26,148	110,737	27,730	15.5%	65.7%	16.5%
Contra Costa	192,006	6,997	76,521	96,105	3.6%	39.9%	50.1%
Marin	52,784	8,980	13,066	30,198	17.0%	24.8%	57.2%
Napa	34,826	137	980	20,400	0.4%	2.8%	58.6%
San Francisco	29,187	9,168	13,929	5,364	31.4%	47.7%	18.4%
San Mateo	103,990	37,455	55,559	7,428	36.0%	53.4%	7.1%
Santa Clara	199,139	7,758	148,023	42,853	3.9%	74.3%	21.5%
Solano	102,317	3,373	3,248	60,269	3.3%	3.2%	58.9%
Sonoma	199,470	15,621	62,350	108,352	7.8%	31.3%	54.3%
	Total Miles	Highest Shaking Potential	Next to Highest Shaking Potential	Middle Category of Shaking Potential	% of Miles in Highest Shaking Potential Area	% of Miles in Next to Highest Shaking Potential Area	% of Miles in Middle Category of Shaking Potential
INFRASTRUCTURE:							
Roads	33,995	3,619	15,307	12,107	10.6%	45.0%	35.6%
Transit	173	43	107	23	24.9%	61.8%	13.3%
Rail	951	143	397	329	15.0%	41.7%	34.6%

See <http://quake.abag.ca.gov/mitigation/pickdbh2.html> for more specific information.

**TABLE 2: Liquefaction Susceptibility and Existing (2000) Land Use**

	Total Acres	Very High Liquefaction Susceptibility	High Liquefaction Susceptibility	Moderate Liquefaction Susceptibility	% of Land in Very High Liquefaction Susceptibility	% of Land in High Liquefaction Susceptibility	Moderate Liquefaction Susceptibility
Total	4,395,975	104,836	446,496	429,906	2.4%	10.2%	9.8%
Urban	1,082,285	64,867	121,967	235,944	6.0%	11.3%	21.8%
Non-Urban	3,313,690	39,969	324,529	193,962	1.2%	9.8%	5.9%
URBAN ONLY:							
Residential	578,048	17,262	46,878	131,332	3.0%	8.1%	22.7%
Mixed R+C	2,345	196	264	870	8.4%	11.3%	37.1%
Commercial/ Services	100,396	7,505	12,133	33,521	7.5%	12.1%	33.4%
Mixed C+I	12,137	2,262	3,314	3,417	18.6%	27.3%	28.2%
Industrial	66,861	9,251	15,514	15,859	13.8%	23.2%	23.7%
Military	31,409	3,737	8,811	1,623	11.9%	28.1%	5.2%
Infrastructure	146,061	15,149	18,190	26,975	10.4%	12.5%	18.5%
Urban Open	145,028	9,505	16,863	22,347	6.6%	11.6%	15.4%
URBAN ONLY:							
Alameda	168,564	20,603	22,357	44,618	12.2%	13.3%	26.5%
Contra Costa	192,006	4,869	21,111	30,611	2.5%	11.0%	15.9%
Marin	52,784	5,354	8,001	4,779	10.1%	15.2%	9.1%
Napa	34,826	1,442	3,444	2,508	4.1%	9.9%	7.2%
San Francisco	29,187	4,898	456	9,187	16.8%	1.6%	31.5%
San Mateo	103,990	11,669	8,333	13,658	11.2%	8.0%	13.1%
Santa Clara	199,139	7,640	30,631	79,601	3.8%	15.4%	40.0%
Solano	102,317	3,678	9,667	24,002	3.6%	9.4%	23.5%
Sonoma	199,470	4,723	17,968	26,984	2.4%	9.0%	13.5%
	Total Miles	Very High Liquefaction Susceptibility	High Liquefaction Susceptibility	Moderate Liquefaction Susceptibility	% of Miles in Very High Liquefaction Susceptibility	% of Miles in High Liquefaction Susceptibility	Moderate Liquefaction Susceptibility
INFRASTRUCTURE:							
Roads	33,995	1,570	2,770	5,156	4.6%	8.1%	
Transit	173	14	11	38	8.1%	6.4%	
Rail	951	118	194	182	12.4%	20.4%	

See <http://quake.abag.ca.gov/mitigation/pickdbh2.html> for more specific information.

**TABLE 3: Predicted Uninhabitable Units for Bay Area Counties and Selected Earthquake Scenarios**

Earthquake Scenario	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma	TOTAL
Santa Cruz Mts. San Andreas	1,968	159	297	0	11,781	223	1,277	2	3	15,710
Peninsula-Golden Gate San Andreas	3,820	188	1,485	3	65,316	22,525	15,094	11	42	108,484
Northern Golden Gate San Andreas	4,345	560	2,988	19	62,654	1,904	449	127	1,804	74,851
Entire Bay Area San Andreas	16,048	1,173	3,495	20	82,354	24,472	29,593	185	2,530	159,870
No. San Gregorio	3,104	238	1,176	4	38,306	9,040	589	12	45	52,514
So. Hayward	64,451	1,760	1,030	16	13,940	245	11,892	126	37	93,497
No. Hayward	43,132	7,686	1,653	19	11,464	210	303	128	74	64,669
N + S Hayward	88,265	10,102	2,125	36	37,670	1,616	14,273	1,046	559	155,692
Rodgers Creek	3,688	1,418	1,549	53	11,460	151	100	1,148	13,988	33,555
Rodgers Creek-No. Hayward	49,284	9,786	2,691	713	29,758	363	402	1,386	14,115	108,498
So. Maacama	325	17	27	22	1,986	11	11	15	825	3,239
West Napa	1,382	286	27	4,284	2,011	15	29	1,668	126	9,828
Concord-Green Valley	3,511	11,363	29	1,307	3,191	76	325	2,868	37	22,707
No. Calaveras	7,836	3,509	27	18	3,191	78	4,882	181	6	19,728
Central Calaveras	3,037	75	27	3	3,191	182	10,145	13	4	16,677
Mt. Diablo	6,128	4,868	751	3	10,489	23	109	17	4	22,392
Greenville	2,701	2,637	27	19	2,005	16	101	190	6	7,701
Monte Vista	323	5	16	1	2,429	2,392	27,223	2	2	32,393

**TABLE NOTES** – This table is based on ABAG’s modeling of uninhabitable housing units in future earthquake scenarios. This modeling is based on an extensive statistical analysis of the housing damage which occurred as a result of the 1989 Loma Prieta and 1994 Northridge earthquakes. The expected percentage of pre-1940 single-family homes rendered uninhabitable used to generate this table is larger than published in 1996. New data on lack of retrofitting and reasons for low damage in the Northridge earthquake caused ABAG to increase the uninhabitable percentages used to create this table for pre-1940 single-family homes to 19% and 25% for MMI IX and X, respectively.

Note that several fault segments listed above have new segment end points or were not included in the 1996 report. They are included in this table to reflect ground shaking information published by USGS in 2003.

The Santa Cruz Mts.–San Andreas is similar, but not identical, to the fault causing the Loma Prieta earthquake. The Monte Vista and West Napa faults have been added to the faults analyzed by USGS to illustrate the impact of an earthquake in these areas. The Maacama fault could impact the North Bay, but too little was known about the fault for the USGS to issue probabilities for it in 2003. It, too, has been added to illustrate possible damage. On the other hand, the Southern Calaveras, the Southern San Gregorio, and the northern North Coast–San Andreas faults are outside of the Bay Area. The Bay Area impacts of earthquakes on these fault segments are dwarfed by their Bay Area segments so they are not included. Additional information on earthquakes and housing is available on the ABAG Earthquake Program Internet site at <http://quake.abag.ca.gov>.

**TABLE 4: Predicted Road Closures for Bay Area Counties and Selected Earthquake Scenarios**

Earthquake Scenario	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma	TOTAL
Santa Cruz Mts. San Andreas	24	10	3	0	44	9	64	0	1	154
Peninsula-Golden Gate San Andreas	50	9	22	0	335	300	146	1	4	866
Northern Golden Gate San Andreas	62	20	70	1	321	24	10	4	69	581
Entire Bay Area San Andreas	146	30	77	3	429	315	250	6	75	1,332
No. San Gregorio	43	11	20	0	164	144	13	1	6	401
So. Hayward	901	43	15	1	72	8	90	4	4	1,138
No. Hayward	335	238	20	1	48	5	7	5	8	667
N + S Hayward	1,081	268	28	2	214	16	99	10	16	1,734
Rodgers Creek	54	34	20	4	48	3	3	12	223	402
Rodgers Creek-No. Hayward	363	256	34	9	157	11	10	14	230	1,084
So. Maacama	8	3	1	3	6	0	1	1	53	74
West Napa	22	20	1	89	6	1	1	14	5	159
Concord-Green Valley	56	201	1	19	11	3	7	83	4	386
No. Calaveras	180	107	1	1	11	3	53	6	1	363
Central Calaveras	51	10	1	0	11	4	132	1	1	210
Mt. Diablo	94	78	7	0	41	2	4	2	1	228
Greenville	70	47	1	1	6	1	4	6	1	138
Monte Vista	10	1	0	0	8	23	283	0	1	326

**TABLE NOTES** – This table is based on ABAG's modeling of road closures in future earthquake scenarios. This modeling is based on an extensive statistical analysis of the road closures that occurred as a result of the 1989 Loma Prieta and 1994 Northridge earthquakes.

Note that this information was updated in 2003 to reflect the definitions of fault segments published by USGS at that time.

The Santa Cruz Mts.-San Andreas is similar, but not identical, to the fault causing the Loma Prieta earthquake. The Monte Vista and West Napa faults have been added to the faults analyzed by USGS to illustrate the impact of an earthquake in these areas. The Maacama fault

could impact the North Bay, but too little was known about the fault for the USGS to issue probabilities for it in 2003. It, too, has been added to illustrate possible damage.

On the other hand, the Southern Calaveras, the Southern San Gregorio, and the northern North Coast-San Andreas faults are outside of the Bay Area. The Bay Area impacts of earthquakes on these fault segments are dwarfed by their Bay Area segments so they are not included. Additional information on earthquakes and transportation is available on the ABAG Earthquake Program Internet site at <http://quake.abag.ca.gov>.

**TABLE 5: Estimate of Probability of Fire Affecting a Given Area Based on Data from Past 50 Years**

<b>Threat Category</b>	<b>Acres Burned in Past 50 Years</b>	<b>Total Number of Acres Within Threat Classification</b>	<b>Percent of Acres That Burned in Past 50 Year Period</b>
On Wildfire Threat Map			
Little or no threat	16109.08	600703	2.68%
Moderate	23332.68	1168996	2.00%
High	159681.39	1152490	13.86%
Very High	312033.63	1366544	22.83%
Extreme	23012.18	84661	27.18%
On Wildland Urban Interface Fire Threat Map			
WUI Acres	34652	810757	4.27%

**TABLE 6: Flooding Hazards and Existing (2000) Land Use**

	Total Acres	Within 100- Year Flood Zone	Within 500-Year Flood Zone or Other Area of Concern	% of Land Within 100- Year Flood Zone	% of Land Within 500- Year Flood Zone or Other Area of Concern
Total	4,395,975	413,595	93,452	9.4%	2.1%
Urban	1,082,285	96,067	52,706	8.9%	4.9%
Non-Urban	3,313,690	317,529	40,746	9.6%	1.2%
URBAN ONLY:					
Residential	578,048	26,016	28,125	4.5%	4.9%
Mixed R+C	2,345	195	91	8.3%	3.9%
Commercial/ Services	100,396	8,538	6,365	8.5%	6.3%
Mixed C+I	12,137	2,750	1,624	22.7%	13.4%
Industrial	66,861	9,871	4,148	14.8%	6.2%
Military	31,409	4,834	53	15.4%	0.2%
Infrastructure	146,061	15,320	5,905	10.5%	4.0%
Urban Open	145,028	28,543	6,396	19.7%	4.4%
URBAN ONLY:					
Alameda	168,564	10,868	9,250	6.4%	5.5%
Contra Costa	192,006	12,820	4,100	6.7%	2.1%
Marin	52,784	6,457	2,893	12.2%	5.5%
Napa	34,826	3,631	475	10.4%	1.4%
San Francisco	29,187	0	0	0.0%	0.0%
San Mateo	103,990	4,816	4,043	4.6%	3.9%
Santa Clara	199,139	22,885	23,636	11.5%	11.9%
Solano	102,317	14,250	4,298	13.9%	4.2%
Sonoma	199,470	20,340	4,011	10.2%	2.0%
	Total Miles	Within 100- Year Flood Zone	Within 500-Year Flood Zone or Other Area of Concern	% of Miles Within 100- Year Flood Zone	% of Miles Within 500- Year Flood Zone or Other Area of Concern
INFRASTRUCTURE:					
Roads	33,995	2,487	1,561	7.3%	4.6%
Transit	173	11	4	6.4%	2.3%
Rail	951	187	56	19.7%	5.9%

See <http://quake.abag.ca.gov/mitigation/pickdbh2.html> for more specific information.

**TABLE 7: Wildfire Hazards and Existing (2000) Land Use**

	Total Acres	Wildland Urban Interface Wildfire Threat	High, Very High, or Extreme Wildfire Threat Areas	% of Land in Wildland Urban Interface Wildfire Threat Area	% of Land in High, Very High, or Extreme Wildfire Threat Area
Total	4,395,975	810,757	2,603,695	18.4%	59.2%
Urban	1,082,285	524,913	230,657	48.5%	21.3%
Non-Urban	3,313,690	285,844	2,373,039	8.6%	71.6%
URBAN ONLY:					
Residential	578,048	325,665	132,685	56.3%	23.0%
Mixed R+C	2,345	1,220	83	52.0%	3.5%
Commercial/ Services	100,396	38,810	9,207	38.7%	9.2%
Mixed C+I	12,137	3,437	232	28.3%	1.9%
Industrial	66,861	18,874	6,903	28.2%	10.3%
Military	31,409	8,088	11,023	25.8%	35.1%
Infrastructure	146,061	62,431	23,272	42.7%	15.9%
Urban Open	145,028	66,388	47,251	45.8%	32.6%
URBAN ONLY:					
Alameda	168,564	71,790	22,361	42.6%	13.3%
Contra Costa	192,006	120,901	43,805	63.0%	22.8%
Marin	52,784	38,428	16,835	72.8%	31.9%
Napa	34,826	15,107	12,322	43.4%	35.4%
San Francisco	29,187	13,880	668	47.6%	2.3%
San Mateo	103,990	54,618	16,478	52.5%	15.8%
Santa Clara	199,139	78,879	17,933	39.6%	9.0%
Solano	102,317	32,404	19,355	31.7%	18.9%
Sonoma	199,470	98,906	80,900	49.6%	40.6%
	Total Miles	Wildland Urban Interface Wildfire Threat	High, Very High, or Extreme Wildfire Threat Areas	% of Land in Wildland Urban Interface Wildfire Threat Area	% of Land in High, Very High, or Extreme Wildfire Threat Area
INFRASTRUCTURE:					
Roads	33,995	13,829	9,032	40.7%	26.6%
Transit	173	63	10	36.4%	5.8%
Rail	951	264	95	27.8%	10.0%

See <http://quake.abag.ca.gov/mitigation/pickdbh2.html> for more specific information.

**TABLE 8: Existing Landslide Areas and Existing (2000) Land Use**

	Total Acres	In Areas of Mostly Landslides	% of Land in Areas of Mostly Landslides
Total	4,395,975	1,012,701	23.0%
Urban	1,082,285	89,647	8.3%
Non-Urban	3,313,690	923,054	27.9%
URBAN ONLY:			
Residential	578,048	53,606	9.3%
Mixed R+C	2,345	6	0.3%
Commercial/ Services	100,396	3,758	3.7%
Mixed C+I	12,137	89	0.7%
Industrial	66,861	2,416	3.6%
Military	31,409	571	1.8%
Infrastructure	146,061	8,820	6.0%
Urban Open	145,028	20,381	14.1%
URBAN ONLY:			
Alameda	168,564	7,791	4.6%
Contra Costa	192,006	25,398	13.2%
Marin	52,784	9,601	18.2%
Napa	34,826	2,098	6.0%
San Francisco	29,187	282	1.0%
San Mateo	103,990	8,579	8.2%
Santa Clara	199,139	7,593	3.8%
Solano	102,317	3,312	3.2%
Sonoma	199,470	24,992	12.5%
	Total Miles	In Areas of Mostly Landslides	% of Miles in Areas of Mostly Landslides
INFRASTRUCTURE:			
Roads	33,995	3,588	10.6%
Transit	173	4	2.3%
Rail	951	12	1.3%

See <http://quake.abag.ca.gov/mitigation/pickdbh2.html>  
for more specific information.



**TABLE 9: Dam Failure Inundation Areas and Existing (2000) Land Use**

	Total Acres	In Dam Inundation Area	% of Land in Dam Inundation Area
Total	4,395,975	457,925	10.4%
Urban	1,082,285	200,142	18.5%
Non-Urban	3,313,690	257,783	7.8%
URBAN ONLY:			
Residential	578,048	101,014	17.5%
Mixed R+C	2,345	613	26.1%
Commercial/ Services	100,396	23,842	23.7%
Mixed C+I	12,137	5,149	42.4%
Industrial	66,861	21,328	31.9%
Military	31,409	1,248	4.0%
Infrastructure	146,061	22,353	15.3%
Urban Open	145,028	24,596	17.0%
URBAN ONLY:			
Alameda	168,564	53,705	31.9%
Contra Costa	192,006	18,232	9.5%
Marin	52,784	2,511	4.8%
Napa	34,826	5,570	16.0%
San Francisco	29,187	1,784	6.1%
San Mateo	103,990	9,486	9.1%
Santa Clara	199,139	63,830	32.1%
Solano	102,317	16,766	16.4%
Sonoma	199,470	28,259	14.2%
	Total Miles	In Dam Inundation Area	% of Miles in Dam Inundation Area
INFRASTRUCTURE:			
Roads	33,995	5,984	17.6%
Transit	173	42	24.3%
Rail	951	309	32.5%

See <http://quake.abag.ca.gov/mitigation/pickdbh2.html>  
for more specific information.